

ABSTRACT OF THE DISCLOSURE

A charge pump circuit for converting an input voltage to a predetermined voltage. The charge pump circuit includes switching transistors, which are connected in series between an output terminal and reference potential terminal of the charge pump circuit, and a capacitor connected to a node between the first and second transistors. The switching transistors include a first transistor connected to the reference potential terminal and a second transistor connected to the first transistor. The capacitor has a first terminal connected to a node between the transistors and a second terminal connected to a delay circuit. The delay circuit is connected between the second terminal of the capacitor and a control terminal of the first transistor. The delay circuit delays a clock signal received by the control terminal by a predetermined time and provides the delayed first clock signal to the second terminal of the capacitor.